

Recombinant Rat Col2a1 protein, His-tagged

Cat. No. Col2a1-7925R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Col2a1 aa. (Lys1226~Tyr1331 (Accession # P05539)) fused with N-terminal His tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Lys1226~Tyr1331
Description	Structural component of the cartilage extracellular matrix.
Form	Freeze-dried powder
Molecular Mass	15kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 7.1.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein

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at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.

Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH 7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Col2a1 collagen type II alpha 1 chain [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Col2a1
Synonyms	Col2a1; collagen type II alpha 1 chain; CG2A1A; COL2A1; collagen alpha-1(II) chain; Procollagen II alpha 1; alpha-1 type II collagen; collagen type II (Col2A1) gene, enhancer region; collagen, type II, alpha 1; procollagen, type II, alpha 1
Gene ID	25412
mRNA Refseq	NM_012929.1
Protein Refseq	NP_037061.1
UniProt ID	P05539

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